

REMARKS

Claims 1-17 were pending in the application prior to the present amendment.

Claims 1-3, 7, 11-12 and 16-17 are currently amended.

Claims 18 and 19 have been added.

Thus, Claims 1-19 will be pending in the application after entry of the present amendment.

Information Disclosure Statement

The Office Action states that “The information disclosure statement filed 6/11/2001 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP §609 because the information disclosure statement does not recite any author for all references and publisher for some references.” Applicant respectfully notes that the recitation of an author is not necessary under the provisions of 37 CFR 1.98(b)(5) and MPEP §609.III.A(1) if an author is not identified within a given reference. None of the references listed in the 1449 Form of the 6/11/2001 information disclosure statement (IDS) identify an author. Furthermore, Applicant respectfully notes that the 1449 Form identifies the publisher of each of references A3-A8 as Advanced Micro Devices, Inc. With regard to references A1 and A2, Applicant believes the publishers (Intel Corporation and Advanced Micro Devices, Inc. respectively) of these references are clearly evident from their respective titles (as given in the 1449 Form). Nevertheless, Applicant submits an amended 1449 Form indicating Intel Corporation and Advanced Micro Devices, Inc. as the publishers of references A1 and A2, respectively. Applicant accordingly requests that the Examiner consider each of the references A1-A8.

Claim Objections

Claims 1, 11 and 16-17 were objected to because the acronym “SIMD” was used without spelling out the phrase that it represents. Thus, Claims 1, 11 and 16-17 have been amended to correct these informalities.

Rejections under Section 112

Claims 2, 3, 7 and 12 were rejected under 35 U.S.C. Section 112, second paragraph, as being indefinite. Thus, these claims have been amended to more clearly recite the respective inventive features.

Rejections Under Section 102(e)

Claims 1, 4, 5 and 16-17 were rejected under 35 U.S.C. Section 102(e) as being anticipated by Horton (U.S. Patent No. 6,421,696). These rejections are respectfully traversed based on the following reasoning.

Horton discloses a system and method for high-speed execution of Fast Fourier transforms using SIMD instructions on a general purpose processor. The transforms disclosed by Horton are one-dimensional transforms, i.e., they operate on a vector input and generate a vector output as illustrated by the signal flow graph in Figure 1, by the linear structure of the input array shown in Figure 6, and by the input array suggested at Col. 2, lines 42-46. In contrast, the method of claim 1 recites “receiving a block of integer data having C columns and R rows”. Thus, the method of claim 1 has in view a two-dimensional transform which operates on a two-dimensional input block (i.e., the “block of integer data”).

Furthermore, claim 1 recites that “each of the R rows contains C row data values” and “for each row, loading the C row data values into registers ...”. Thus, the method of claim 1 comprises loading an entire row of data values into registers. Horton nowhere teaches or suggests this feature. ✓

Thus, claim 1 and its dependents are patentably distinguished over Horton at least for the reasons give above. Claims 16 and 17 recite features similar to those recited in Claim 1. Thus, Claims 16 and 17 and their respective dependents are patentably distinguished over Horton for reasons similar to those advanced above.

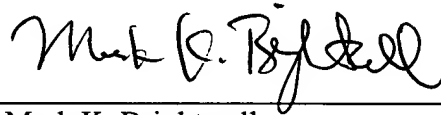
CONCLUSION

Applicant submits that the application is in condition for allowance, and an early notice to that effect is requested. If any extensions of time (under 37 C.F.R. § 1.136) are necessary to prevent the above referenced application(s) from becoming abandoned,

Applicant hereby petitions for such extensions. If any fees are due, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/5500-59800/BNK. Also enclosed herewith are the following items:

- ☒ Return Receipt Postcard
- ☐ Request for Approval of Drawing Changes
- ☐ Fee Authorization Form authorizing a deposit account debit in the amount of \$___ for fees ().
- ☒ Other: IDS, including PTO-1449 form and cited references

Respectfully submitted,



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AGENT FOR APPLICANT(S)

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Date: October 30, 2003